## What is claimed is:

1. A method of scanning a storage device for viruses, comprising:

determining physical portions of the storage device that have been modified since a previous virus scan; and

- 5 scanning at least parts of the physical portions for viruses.
  - 2. A method, according to claim 1, wherein the physical portions correspond to tracks of the storage device.
  - 3. A method, according to claim 1, wherein the physical portions correspond to sectors of the storage device.
- 4. A method, according to claim 1, wherein the physical portions correspond to subportions of the storage device.
  - 5. A method, according to claim 1, wherein determining the physical portions of the storage device that have been modified includes:

indicating whether a corresponding one of the portions has been modified, the entries being cleared after a virus scan to indicate that no portions have been modified; and setting a specific one of the entries in response to a corresponding one of the portions of the storage device being subject to a write operation.

- 6. A method, according to claim 5, wherein creating the table includes copying an other table provided by the storage device.
- 7. A method, according to claim 5, wherein creating the table includes using an other table provided by the storage device.
- 5 8. A method of scanning a storage device for viruses, comprising:

determining physical portions of the storage device that have been modified since a previous virus scan;

mapping the portions to logical entities; and scanning at least some of the logical entities for viruses.

- 9. A method, according to claim 8, wherein the physical portions correspond to tracks of the storage device.
  - 10. A method, according to claim 8, wherein the physical portions correspond to sectors of the storage device.
- 11. A method, according to claim 8, wherein the physical portions correspond tosubportions of the storage device.
  - 12. A method, according to claim 8, wherein the logical entities are files.

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13. A method, according to claim 8, wherein determining physical portions of the storage device that have been modified includes:

creating a table that is indexed according to each of the portions and has entries indicating whether a corresponding one of the portions has been modified, the entries being cleared after a virus scan to indicate that no portions have been modified; and setting a specific one of the entries in response to a corresponding one of the portions of the storage device being subject to a write operation.

14. A method, according to claim 8, further comprising:

prior to scanning the logical entities, selecting the logical entities according to at least one predetermined criterion.

- 15. A method, according to claim 14, wherein the at least one predetermined criterion is at least one of: logical entity type and date of last modification.
- 16. A method, according to claim 8, wherein scanning the logical entities includes scanning logical entities having one of a predetermined set of types.
- 17. A method, according to claim 16, wherein the predetermined types include at least one of: executable files, files that affect system configuration, Java scripts, Web based interpreted/executed files, Web pages having particular tags, and particularly identified data packets.

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- 18. A method, according to claim 8, wherein scanning the logical entities includes scanning entities having a date of last modification that is after a most previous virus scan.
- 19. A method, according to claim 8, wherein scanning the logical entities includes scanning entities having one of a predetermined set of types and having a date of last modification that is after a most previous virus scan
  - 20. A method, according to claim 8, wherein scanning the logical entities includes:

for each of the logical entities having a date of last modification that is prior to a most previous virus scan, comparing a current size value of the entity with a previous size value of the entity prior to the most previous virus scan; and

scanning entities having at least one of: a date of last modification that is after a most previous virus scan and the current size value that is different than the previous size value.

- 21. A method, according to claim 8, wherein scanning the logical entities includes:
- for each of the logical entities having one of a predetermined set of types and having a date of last modification that is prior to a most previous virus scan, comparing a current size value of the entity with a previous size value of the entity prior to the most previous virus scan; and

scanning entities having one of the predetermined set of types and having at least

one of: a date of last modification that is after a most previous virus scan and the current
size value that is different than the previous size value.

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- 22. A computer program product for scanning a storage device for viruses, comprising:

  means for determining physical portions of the storage device that have been

  modified since a previous virus scan; and

  means for scanning at least parts of the physical portions for viruses.
- 5 23. A computer program product, according to claim 22, wherein the physical portions correspond to tracks of the storage device.
  - 24. A computer program product, according to claim 22, wherein the physical portions correspond to sectors of the storage device.
  - 25. A computer program product according to claim 22, wherein the physical portions correspond to subportions of the storage device.
  - 26. A computer program product, according to claim 22, wherein means for determining the physical portions of the storage device that have been modified includes:

means for creating a table that is indexed according to each of the portions and has entries indicating whether a corresponding one of the portions has been modified, the entries being cleared after a virus scan to indicate that no portions have been modified; and

means for setting a specific one of the entries in response to a corresponding one of the portions of the storage device being subject to a write operation.

- 27. A computer program product, according to claim 26, wherein means for creating the table includes means for copying an other table provided by the storage device.
- 28. A computer program product, according to claim 26, wherein means for creating the table includes means for using an other table provided by the storage device.
- 5 29. A computer program product for scanning a storage device for viruses, comprising: means for determining physical portions of the storage device that have been modified since a previous virus scan;

means for mapping the portions to logical entities; and means for scanning at least some of the logical entities for viruses.

- 30. A computer program product, according to claim 29, wherein the physical portions correspond to tracks of the storage device.
  - 31. A computer program product, according to claim 29, wherein the physical portions correspond to sectors of the storage device.
- 32. A computer program product, according to claim 29, wherein the physical portionscorrespond to subportions of the storage device.
  - 33. A computer program product, according to claim 29, wherein the logical entities are files.

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gram product, according to claim 29, wherein means for determini

34. A computer program product, according to claim 29, wherein means for determining physical portions of the storage device that have been modified includes:

means for creating a table that is indexed according to each of the portions and has entries indicating whether a corresponding one of the portions has been modified, the entries being cleared after a virus scan to indicate that no portions have been modified; and

means for setting a specific one of the entries in response to a corresponding one of the portions of the storage device being subject to a write operation.

35. A computer program product, according to claim 29, further comprising:

means for selecting the logical entities according to at least one predetermined criterion prior to scanning the logical entities.

- 36. A computer program product, according to claim 35, wherein the at least one predetermined criterion is at least one of: logical entity type and date of last modification.
- 37. A computer program product, according to claim 29, wherein means for scanning the
   logical entities includes means for scanning logical entities having one of a
   predetermined set of types.
  - 38. A computer program product, according to claim 37, wherein the predetermined types include at least one of: executable files, files that affect system configuration, Java scripts, Web based interpreted/executed files, Web pages having particular tags, and particularly identified data packets.

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- 39. A computer program product, according to claim 29, wherein means for scanning the logical entities includes scanning entities having a date of last modification that is after a most previous virus scan.
- 40. A computer program product, according to claim 29, wherein means for scanning the
   logical entities includes scanning entities having one of a predetermined set of types and having a date of last modification that is after a most previous virus scan.
  - 41. An antivirus unit, comprising:

means for coupling to at least one storage device;

means for determining physical portions of the storage device that have been

10 modified since a previous virus scan; and

means for scanning at least parts of the physical portions for viruses.

- 42. An antivirus unit, according to claim 41, wherein the physical portions correspond to tracks of the storage device.
- 43. An antivirus unit, according to claim 41, wherein the physical portions correspond tosectors of the storage device.
  - 44. An antivirus unit, according to claim 41, wherein the physical portions correspond to subportions of the storage device.

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45. An antivirus unit, according to claim 41, further comprising:

a table that is indexed according to each of the portions and has entries indicating whether a corresponding one of the portions has been modified, the entries being cleared after a virus scan to indicate that no portions have been modified; and

means for setting a specific one of the entries in response to a corresponding one of the portions of the storage device being subject to a write operation.

- 46. An antrivirus scanning unit, according to claim 41, wherein said means for coupling includes means for coupling to only one storage device.
- 47. An antivirus unit, according to claim 41, wherein said means for coupling includes means for coupling to more than one storage device.
- 48. An antivirus unit, according to claim 41, further comprising: means for coupling to at least one host.
- 49. An antivirus unit, according to claim 48, wherein said antivirus unit is interposed between said at least one storage device and said at least one host.
- 50. An antivirus unit, according to claim 48, wherein said antivirus unit is implemented as a process running on the at least one host.

- 51. An antivirus unit, according to claim 41, wherein said antivirus unit is implemented using stand alone hardware.
- 52. An antivirus unit, according to claim 41, wherein at least a portion of the antivirus unit is provided on at least some controllers for the at least one storage device.
- 5 53. An antivirus unit, comprising:

means for determining physical portions of the storage device that have been modified since a previous virus scan;

means for mapping the portions to logical entities; and means for scanning at least some of the logical entities for viruses.

- 54. An antivirus unit, according to claim 53, wherein the physical portions correspond to tracks of the storage device.
  - 55. An antivirus unit, according to claim 53, wherein the physical portions correspond to sectors of the storage device.
- 56. An antivirus unit, according to claim 53, wherein the physical portions correspond to subportions of the storage device.
  - 57. An antivirus unit, according to claim 53, wherein the logical entities are files.

## 58. An antivirus unit, according to claim 53, further comprising:

a table that is indexed according to each of the portions and has entries indicating whether a corresponding one of the portions has been modified, the entries being cleared after a virus scan to indicate that no portions have been modified; and

means for setting a specific one of the entries in response to a corresponding one of the portions of the storage device being subject to a write operation.

## 59. An antivirus unit, according to claim 53, further comprising:

means for selecting the logical entities according to at least one predetermined criterion prior to scanning the logical entities.

- 10 60. An antivirus unit, according to claim 59, wherein the at least one predetermined criterion is at least one of: logical entity type and date of last modification.
  - 61. An antivirus unit, according to claim 53, wherein means for scanning the logical entities scans logical entities having one of a predetermined set of types.
- 62. An antivirus unit, according to claim 61, wherein the predetermined types include at least one of: executable files, files that affect system configuration, Java scripts, Web based interpreted/executed files, Web pages having particular tags, and particularly identified data packets.